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SOUTHERN YELLOW PINE STANDARDS

*Specification and Design Information and
Data for the Use of Architects
and Engineers*

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Southern Pine Association

Architectural and Engineering Service Department

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SOUTHERN YELLOW PINE STANDARDS

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SOUTHERN PINE STANDARDS

GRADE-MARKED AND TRADE-MARKED LUMBER

The introduction of certified and guaranteed lumber by the Southern Pine Association and its manufacture in accordance with the American Lumber Standard Sizes, takes the guesswork out of lumber specifications and use. To give assurance of correct grading to the buyer, the lumber is branded with an abbreviation of the standard grade of the piece, the producing mill's official number and the Association's symbol. Uniformity of grades is further secured by a monthly check conducted by the Southern Pine Association's Inspection Service at the mills of the subscribers. Records show that lumber manufactured by subscribers to the Southern Pine Association is more uniformly and accurately graded than the products of mills without the benefits of such service. The manufacturer of Southern Yellow Pine thus maintains a skilled and careful control over the product not only during the process of manufacture but from the time it leaves the mill to delivery at the building operation. The quality of the lumber is guaranteed to the consumer as well as its classification into appropriate grades for specific uses and applications.*

*See Bulletin No. 6 of this series for Recommended Use Specifications.

USE CLASSIFICATION

Lumber is classified by its principal uses into (a) Yard Lumber, (b) Structural Timbers and (c) Shop or Factory Lumber.**

YARD LUMBER

The term "Yard Lumber" as applied to Southern Yellow Pine means lumber that is manufactured and classified into those sizes, shapes, and qualities required for ordinary construction and general purpose uses. The following items are all included under this term: Finish (rough or dressed); Moulded Casing and Base; Window and Door Jambs; Flooring; Ceiling; Partition; Drop and Bevel Siding; Mouldings; Common Boards and Strips, (rough, surfaced one side, surfaced one side and one edge, surfaced two sides or surfaced four sides); Dressed and Matched; Shiplap; Grooved Roofing; Barn Siding; Dimension; Heavy Joists; Lath; Shingles.

Yard Lumber is again classified into *Select Lumber*, which is graded in two main subdivisions: (1) that suitable for Natural Finishes, and (2) that suitable for Paint Finishes; and *Common Lumber*, which is graded in two main subdivisions: (1) that which can be used without waste, and (2) that which permits use with some waste.

**See American Lumber Standards, Simplified Practice Recommendation No. 16, U. S. Dept. of Commerce.

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STRUCTURAL TIMBERS

The term "Structural Timbers" as applied to Southern Yellow Pine means lumber that is used for structural purposes and which is graded upon the basis of the strength and use of the entire piece as a structural unit. All structural grades of Southern Yellow Pine are furnished in two qualities of material designated as (1) Dense and (2) Sound.*

SHOP OR FACTORY LUMBER

The term "Shop or Factory Lumber" as applied to Southern Yellow Pine means lumber that is intended to be remanufactured for specific uses such as doors and window sash. The grade of such lumber is determined by the percentage of the area of each board or plank that is available for cuttings of the specified sizes and qualities.

AMERICAN STANDARD LUMBER

THE Standard Specifications for Grades and Sizes of Southern Yellow Pine Lumber conform with the grades, sizes and inspection requirements of American Standard Lumber.**

DRESSED THICKNESSES AND WIDTHS

The thicknesses and widths of Finish Lumber, Common Boards, Strips and Dimensions are as follows:

Product	Size Board Measure		Dressed Dimensions at Commercially Dry Shipping Weight		
	Thick-ness Inches	Width Inches	Thick-ness Standard Yard Inches	Thick-ness Standard Industrial Inches	Width Inches
Finish	...	3	$\frac{5}{16}$	...	$2\frac{5}{8}$
	...	4	$\frac{7}{16}$	...	$3\frac{1}{2}$
	...	5	$\frac{9}{16}$	...	$4\frac{1}{2}$
	...	6	$\frac{11}{16}$	...	$5\frac{1}{2}$
	1	7	$\frac{25}{32}$	$\frac{26}{32}$	$6\frac{1}{2}$
	$1\frac{1}{4}$	8	$1\frac{1}{16}$	...	$7\frac{1}{4}$
	$1\frac{1}{2}$	9	$1\frac{5}{16}$	...	$8\frac{1}{4}$
	$1\frac{3}{4}$	10	$1\frac{7}{16}$	...	$9\frac{1}{4}$
	2	11	$1\frac{5}{8}$	$1\frac{6}{8}$	$10\frac{1}{4}$
	$2\frac{1}{2}$	12	$2\frac{1}{8}$	...	$11\frac{1}{4}$
	3	over 12	$2\frac{5}{8}$	...	off $\frac{3}{4}$

(Continued)

*For discussion of the Grades of Structural Timbers see Bulletin No. 3 of this series.

**See latest editions of Specifications for Southern Pine Lumber and Timbers for complete details of grade specifications.

Product	Size Board Measure		Dressed Dimensions at Commercially Dry Shipping Weight		
	Thick-ness Inches	Width Inches	Thick-ness Standard Yard Inches	Thick-ness Standard Industrial Inches	Width Inches
Common Boards and Strips	1	3	$\frac{15}{32}$	$\frac{26}{32}$	$2\frac{5}{8}$
	$1\frac{1}{4}$	4	$1\frac{1}{16}$	...	$3\frac{5}{8}$
	$1\frac{1}{2}$	5	$1\frac{5}{16}$	...	$4\frac{5}{8}$
	...	6	...	...	$5\frac{5}{8}$
	...	7	...	...	$6\frac{5}{8}$
	...	8	...	...	$7\frac{1}{2}$
	...	9	...	...	$8\frac{1}{2}$
	...	10	...	...	$9\frac{1}{2}$
	...	11	...	...	$10\frac{1}{2}$
	...	12	...	...	$11\frac{1}{2}$
	...	over 12	...	...	off $\frac{5}{8}$
Dimensions	2	2	$1\frac{5}{8}$	$1\frac{6}{8}$	$1\frac{5}{8}$
	...	4	...	...	$3\frac{5}{8}$
	...	6	...	...	$5\frac{5}{8}$
	...	8	...	...	$7\frac{1}{2}$
	...	10	...	...	$9\frac{1}{2}$
	...	12	...	...	$11\frac{1}{2}$

Thicknesses apply to all widths and widths to all thicknesses.

The thicknesses and widths of Heavy Joists are as follows:

Thickness, Board Measure Inches	Dressed Dimensions, Green or Commercially Dry Inches
2 x 14.....	$1\frac{5}{8}$ x $13\frac{1}{2}$.
2 x 16.....	$1\frac{5}{8}$ x $15\frac{1}{2}$.
2 x 18 and wider.....	$1\frac{5}{8}$ x $\frac{1}{2}$ inch off.
$2\frac{1}{2}$ and thicker x 6.....	$\frac{3}{8}$ off in thickness x $5\frac{5}{8}$.
$2\frac{1}{2}$ and thicker x.....	$\frac{3}{8}$ off in thickness x
8 and wider.....	$\frac{1}{2}$ off in width.

The thicknesses and widths of Siding, Flooring, Ceiling, Partition, Shiplap, and Dressed and Matched are as follows:

Product	Size, Board Measure		Dressed Dimensions at Commercially Dry Shipping Weight		
	Thick-ness Inches	Width Inches	Thick-ness Inches	Face Width Inches	Over-all Width Inches
Bevel Siding	...	4	$\frac{7}{16}$ x $\frac{3}{16}$	$3\frac{1}{2}$	$3\frac{1}{2}$
	...	5	$\frac{10}{16}$ x $\frac{3}{16}$	$4\frac{1}{2}$	$4\frac{1}{2}$
	...	6	...	$5\frac{1}{2}$	$5\frac{1}{2}$
Rustic and Drop Siding (D&M.)	...	4	$\frac{9}{16}$	$3\frac{1}{4}$	$3\frac{1}{2}$
	...	5	$\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{1}{2}$
	...	6	...	$5\frac{3}{16}$	$5\frac{7}{16}$
	...	8	...	$7\frac{1}{4}$	$7\frac{1}{2}$

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Product	Size, Board Measure		Dressed Dimensions at Commercially Dry Shipping Weight		
	Thick-ness Inches	Inches Width	Thick-ness Inches	Face Width Inches	Over-all Width Inches
Rustic and Drop Siding— (Shiplapped)	...	4	$\frac{9}{16}$	$3\frac{1}{8}$	$3\frac{1}{2}$
	...	5	$\frac{3}{4}$	$4\frac{1}{8}$	$4\frac{1}{2}$
	...	6	...	$5\frac{1}{16}$	$5\frac{7}{16}$
	...	8	...	$7\frac{1}{8}$	$7\frac{1}{2}$
Flooring	...	2	(a) $\frac{5}{16}$	$1\frac{1}{2}$	$1\frac{3}{4}$
	...	3	(a) $\frac{7}{16}$	$2\frac{3}{8}$	$2\frac{5}{8}$
	...	4	(a) $\frac{9}{16}$	$3\frac{1}{4}$	$3\frac{1}{2}$
	1	5	$\frac{25}{32}$	$4\frac{1}{4}$	$4\frac{1}{2}$
	$1\frac{1}{4}$	6	$1\frac{1}{16}$	$5\frac{3}{16}$	$5\frac{7}{16}$
	$1\frac{1}{2}$	...	$1\frac{5}{16}$	...	...
Ceiling	...	3	(a) $\frac{5}{16}$	$2\frac{3}{8}$	$2\frac{5}{8}$
	...	4	(a) $\frac{7}{16}$	$3\frac{1}{4}$	$3\frac{1}{2}$
	...	5	(a) $\frac{9}{16}$	$4\frac{1}{4}$	$4\frac{1}{2}$
	...	6	$1\frac{1}{16}$	$5\frac{3}{16}$	$5\frac{7}{16}$
Partition	...	3	$\frac{3}{4}$	$2\frac{3}{8}$	$2\frac{5}{8}$
	...	4	...	$3\frac{1}{4}$	$3\frac{1}{2}$
	...	5	...	$4\frac{1}{4}$	$4\frac{1}{2}$
	...	6	...	$5\frac{3}{16}$	$5\frac{7}{16}$
Shiplap	1	4	$\frac{25}{32}$	$3\frac{1}{8}$	$3\frac{1}{2}$
	...	6	...	$5\frac{1}{8}$	$5\frac{1}{2}$
	...	8	...	$7\frac{1}{8}$	$7\frac{1}{2}$
	...	10	...	$9\frac{1}{8}$	$9\frac{1}{2}$
	...	12	...	$11\frac{1}{8}$	$11\frac{1}{2}$
Dressed and Matched	1	4	$\frac{25}{32}$	$3\frac{1}{4}$	$3\frac{1}{2}$
	$1\frac{1}{4}$	6	$1\frac{1}{16}$	$5\frac{1}{4}$	$5\frac{1}{2}$
	$1\frac{1}{2}$	8	$1\frac{5}{16}$	$7\frac{1}{4}$	$7\frac{1}{2}$
	...	10	...	$9\frac{1}{4}$	$9\frac{1}{2}$
	...	12	...	$11\frac{1}{4}$	$11\frac{1}{2}$

Thicknesses apply to all widths and widths to all thicknesses, except as specified for over-all widths.

In tongued and grooved Flooring and Ceiling $\frac{5}{16}$ ", $\frac{7}{16}$ ", and $\frac{9}{16}$ " thick, board measure, the tongue is $\frac{3}{16}$ inch wide, and the over-all widths are $\frac{1}{16}$ inch less than shown above; and in shiplapped Ceiling of the same thicknesses, the lap is $\frac{1}{8}$ " wide, and the over-all widths are $\frac{1}{8}$ inch less than shown above.

ROUGH THICKNESSES AND WIDTHS

The Rough Dry Thickness of Standard Yard 1 inch Finish, Common Board, and Strip is not less than $\frac{29}{32}$ inch except that 20 percent of the shipment may be $\frac{28}{32}$ inch; and the Rough Dry Thickness of the Standard Industrial Finish, Common Board and Strip, is not less than $\frac{30}{32}$ inch except that 10 per cent of the shipment may be $\frac{29}{32}$ inch.

The Rough Dry Thickness of Finish, Common Boards, Strips, and Dimension of Standard sizes $1\frac{1}{4}$ inches and thicker, board measure, is $\frac{1}{8}$ inch more than the correspond-

ing Finished Dry Thickness except that 20 per cent of the shipment may be $\frac{3}{32}$ inch more than the corresponding Finished Dry Thickness.

The widths of finish, rough and kiln dried of 3-inch width, board measure, shall be not more than $\frac{1}{4}$ inch less than the nominal width, widths 4 to 7 inches inclusive, board measure, shall be not more than $\frac{3}{8}$ inch less than the nominal widths, and the widths 8 to 12 inches inclusive, board measure, shall be not more than $\frac{5}{8}$ inch less than the nominal widths; the widths of common boards and dimension, rough and commercially dry, 7 inches and narrower, board measure, shall be not more than $\frac{1}{4}$ inch less than the nominal widths, and the widths 8 to 12 inches, board measure, shall be not more than $\frac{3}{8}$ inch less than the nominal widths.

Heavy joists, rough, green or commercially dry, may not be over $\frac{1}{4}$ inch scant in width or thickness.

Finish, Boards, Strips, Dimension, and Heavy Joists, ordered rough, if thicker than count thickness for dry or green stock, may be dressed to such count thickness, and when so dressed shall be considered as rough stock. In shipments of rough Finish, Common Boards, Strips, and Dimension, pieces $\frac{1}{2}$ inch or more above the count thickness as may be produced by uneven sawing, may be rejected or accepted as the next lower grade at the option of the buyer.

Rough Structural timbers, except in No. 1 Common Grade, are usually full-size when green, but should never be more than $\frac{1}{4}$ inch scant from the actual size specified. Rough Common Timbers, 4 inches by 4 inches and larger, may be $\frac{1}{4}$ inch scant in either or both dimensions. In dressing, one-quarter ($\frac{1}{4}$) inch off the nominal size is allowed for each side surfaced.

LENGTHS

Standard lengths for Southern Yellow Pine Boards, Strips, Dressed and Matched, Shiplap, Barn Siding, Grooved Roofing, Dimension and Joists are 4 to 20 feet, inclusive, in multiples of 2 feet; for Finish, Casing, Base, Window and Door Jambs, Flooring, Ceiling, Partition and Drop Siding, 4 to 20 feet inclusive, in multiples of 1 foot; and for Mouldings 6 feet and longer. In addition, in 2" x 4" 2" x 6", and 2" x 8" Dimension and Heavy

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Joist, 9 and 11 foot lengths; in 2" x 8", 13 foot lengths; and in 2" x 10", 13 and 15 foot lengths are also included as Standard. In the various grades of each item, hereinafter described, the proportion of short lengths allowed may be, and is customarily included in all shipments of mixed lengths unless otherwise specifically agreed upon. Longer or shorter lengths than the Standard above specified are Special. When Fractional lengths are ordered, they are counted as the next higher Standard length.

Standard lengths for Structural Timbers are 8 to 20 feet, inclusive, in multiples of 2 feet. All lengths 22 feet and over in multiples of 2 feet are Extra Lengths. When Lineal Average is specified, Standard Lengths are measured in multiples of 1 foot.

METHOD OF LUMBER MEASUREMENT

LUMBER of Standard Yard and Standard Industrial size and Structural Timbers are sold on the basis of the contents of the nominal size or corresponding standard dimensions of the rough green lumber. A Board Foot of lumber is the contents of a volume 12 inches long, 12 inches wide, and 1 inch thick, containing 1/12 of a cubic foot, based on Standard Rough Dimensions. The nominal standard size or dimension is known as the "Size, Board Measure." When the standard thickness, board measure, is less than one (1) inch, the number of board feet contents is based on the standard surface dimensions. The board measurement of lumber finished to special size is based on the standard rough size necessarily used in its manufacture.

STANDARD GRADES

SOUTHERN YELLOW PINE lumber is graded with special reference to its suitability for the use intended. The provisions of the grade specifications are sufficiently explicit to establish 5 per cent. below grade as a reasonable variation in judgment between different inspectors and graders.

Except in Dimension and Heavy Joists, the grade of yard lumber, rough or surfaced two sides, is determined from the better side of the piece; lumber which is surfaced one side only is graded from the surfaced side; and in stock (rough or dressed two sides), of Common Boards (center matched or shiplapped

and surfaced two sides), the better side is considered the face side, and the reverse side of the piece, in either case, may not be more than one grade lower.

Structural timbers, Dimension, and Heavy Joists, are graded by the defects appearing on all faces, edges and ends as provided for in the grading rules.

FINISH

The grades of finish are based on a piece 8 inches wide by 12 feet long, or a piece having 8 square feet of surface measurement. The permissible number of defects in larger or smaller pieces is proportionate to the size of the piece. Special contract must be made when both sides of the piece are desired of the same grade.

GRADES

Finish is furnished in grades "A" and "B" suitable for Natural Finishes and in grade "C" suitable for Paint Finishes. In the "C" grade, defective dressing or slight skips in dressing that do not prevent its use without waste as finish are also admitted.

PERCENTAGE OF SHORT LENGTHS

In shipments of miscellaneous or mixed lengths, 5 per cent. of 8 foot lengths are admissible.

MOULDED CASING, BASE, WINDOW AND DOOR JAMBS

Moulded Casing and Base are worked to American Lumber Standard Sizes and Patterns; Window and Door Jambs are dressed, rabbeted and plowed as ordered.*

GRADES

Casing, Base and Jambs are furnished in the same grades, "A," "B," and "C," and admit the same defects as "Finish" with the exception that wane is prohibited.

FLOORING

The grades of Flooring are based on a piece 4 inches wide by 12 feet long, or a piece having 4 square feet of surface measurement. The permissible number of defects in larger or smaller pieces is proportionate to the size of

*See Bulletin No. 8 of this series.

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the piece. The standard matching and working of flooring are described in Bulletin No. 1 of this series. If "Center Matched Flooring" is specified, it is required to come up to grade on one side only, and the same defects are admissible on the reverse side as in "Standard Matched Flooring."

GRAIN

Flooring is classified as "Vertical" or "Edge Grain" when the annual rings of growth form an angle of 45 degrees or more with the surface of the piece. This is also referred to as "Rift" or "Comb" grain. It is classified as "Flat" or "Slash Grain" when the angle between the rings and plane of the surface is less than 45 degrees at any point. When no reference is made to grain in specifications for material, "Flat Grain" is furnished.

GRADES

Edge Grain Flooring is furnished in grades, "A" and "B," suitable for Natural Finish and in grades, "C," "D," No. 1 Common and No. 2 Common, suitable for Paint or Stained Finishes.

Flat Grain Flooring is furnished in grades, "A" and "B," suitable for Natural Finishes and in grades, "C," "D," No. 1 Common, No. 2 Common and No. 3 Common sheathing, suitable for Paint or stained Finishes.

In "C" and better grades of flooring, 1/32 inch mismatch due to changes in moisture content is permissible. In "B" Flooring, 1/32 inch variation in width, and in "C" and "D" Flooring, 1/16 inch variation in width are permissible.

Heart Face Flooring is required to be free from sap-wood on the face side.

PERCENTAGE OF SHORT LENGTHS

In shipments of miscellaneous or mixed lengths in "A" and "B" grades, 5 per cent of 8 and/or 9 foot lengths are admissible; in "C," "D" and No. 1 Common Grades, 5 per cent of 6 and/or 7 foot and 5 per cent. of 8 and/or 9 foot lengths are admissible; in No. 2 Common Grades, 5 per cent of 4 and/or 5 foot, 5 per cent. of 6 and/or 7 foot, and 5 per cent. of 8 and/or 9 foot lengths are admissible, and in No. 3 Common Grades, 4, 5 and 6 foot lengths are admissible to the extent of 20 per cent. of the shipment.

CEILING AND PARTITION

THE GRADES of Ceiling are based upon a piece 4 inches wide by 12 feet long, or a piece having 4 square feet of surface measurement. The permissible number of defects in larger or smaller pieces is proportionate to the size of the piece. The Standard Working of Ceiling and Partition is dressed and matched or shiplap, with a center and edge bead depressed 1/32 inch below the surface of the piece or with a groove 1/16 inch deep.

Partition is graded according to Ceiling rules except that it must meet the requirements of the specified grade on the face side only, and the reverse side can be one grade lower but shall not cause waste in No. 1 Common and better grades.

GRADES

Ceiling and Partition are furnished in grades "A" and "B," suitable for Natural Finishes, and in grades No. 1 Common, No. 2 Common and No. 3 Common, suitable for Paint or Stained Finishes.

PERCENTAGE OF SHORT LENGTHS

In shipments of miscellaneous or mixed lengths in "A" and "B" Grades, 5 per cent. of 8 and/or 9 foot; in No. 1 Common Grade, 5 per cent. of 6 and/or 7, and 5 per cent. of 8 and/or 9 foot; in No. 2 Common Grade, 5 per cent of 4 and/or 5 foot, 5 per cent. of 8 and/or 9 foot lengths are admissible; and in No. 3 Common Grade, 4, 5 and 6 foot lengths are admissible to the extent of 20 per cent. of the shipment.

DROP AND BEVEL SIDING

The grades of Drop Siding are based upon a piece 6 inches wide by 12 feet long, or a piece having 6 square feet of surface measurement. The permissible number of defects in larger or smaller pieces is proportionate to the size of the piece. The Standard Working for Drop Siding is dressed and matched or shiplap. All patterns other than those in the Standard Specifications for Grades of Southern Pine Lumber are special.

Bevel Siding is graded according to the rules for Drop Siding but the several grades

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admit, in addition, such slight imperfections on the thin edge as will be covered by the lap when laid $2\frac{1}{2}$, $3\frac{1}{2}$ or $4\frac{1}{2}$ inches to the weather.

GRADES

Siding is furnished in grades "A" and "B," suitable for Natural Finishes, and in grades No. 1 Common, No. 2 Common and No. 3 Common, suitable for Paint Finishes.

PERCENTAGE OF SHORT LENGTHS

In shipments of miscellaneous or mixed lengths, in "A" and "B" grades, 5 per cent. of 8 and/or 9 foot lengths; in No. 1 Common Grade, 5 per cent. of 6 and/or 7 foot, and 5 per cent. of 8 and/or 9 foot lengths; in No. 2 Common Grades, 5 per cent. of 6 and/or 7 foot, and 5 per cent. of 8 and/or 9 foot lengths are admissible; and in No. 3 Common Grade, 4, 5 and 6 foot lengths are admissible to the extent of 20 per cent. of the shipment.

MOULDINGS

Mouldings are worked to American Lumber Standard Sizes and Patterns as shown in the Southern Pine Association Moulding Book. They are manufactured in one grade, "B and Better," of Southern Yellow Pine Lumber of good appearance and finishing qualities suitable for use with a Natural Finish.

PERCENTAGE OF SHORT LENGTHS

In mixed length shipments, 5 per cent. of 6 and/or 7 foot lengths is admissible. So far as practicable, this percentage of short lengths is customarily included in the interest of conservation.

COMMON BOARDS AND STRIPS

Under these items are included all Common Lumber (rough or dressed one or two sides), Dressed and Matched, Shiplap, Barn Siding and Grooved Roofing. Dressed and matched, Shiplap and Barn Siding are worked to standard patterns. The grooves in Grooved Roofing are $\frac{1}{2}$ inch wide and $\frac{1}{4}$ inch deep and are located with the outer edge of the groove $1\frac{3}{16}$ inches from the edges of the board. All One-inch Common Lumber which is ordered dressed one or two sides, may

also be dressed on one edge making the width $\frac{1}{8}$ inch scant of the standard rough size or nominal width.

GRADES

Common Boards and strips are furnished in grades No. 1 Common and No. 2 Common, that are suitable for use without waste, and in grades No. 3 Common and No. 4 Common which can be used with a permissible amount of waste. No. 3 Common admits such defects that will allow its use as a whole for cheap sheathing or from which can be cut 75 per cent. of lumber as good as No. 2 Common Grade. No. 4 Common Grade excludes only such pieces of lumber as cannot be held in place by nailing after wasting one-fourth the length of the piece by cutting into two or three pieces. Mill inspection is final on No. 4 Common Grade.

DIMENSION AND HEAVY JOISTS

The character and number of defects admissible in the various grades of Dimension and Heavy Joists are determined by their effect on the uniformity of size and the strength of the piece. Appearance of these items of lumber is only a secondary consideration as they are intended primarily for structural purposes.

Heavy joists 2 inches by 14 inches (and wider) and $2\frac{1}{4}$ inches (and thicker) by 6 inches (and wider) may be worked to finished Standard Sizes either green or commercially dry, surfaced one side and one edge, surfaced one side and two edges, surfaced two sides and one edge, or surfaced four sides.

GRADES

Two grades of Dimension and Heavy Joists, No. 1 Common and No. 2 Common, are furnished suitable for use without waste, and one grade, No. 3 Common, is furnished in Dimension stock which is suitable for use as a cheap building material without wasting more than 25 per cent. of each piece of one-third of the total number of pieces in any item of a shipment.

PERCENTAGE OF SHORT LENGTHS

In miscellaneous or mixed length shipments of No. 1 and No. 2 Common Grades of Di-

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mension, lengths shorter than 10 feet are not included, except by agreement; in No. 3 Common Grade, 20 per cent. of 6 and/or 8 foot lengths are admissible.

FACTORY FLOORING, DECKING AND HEAVY SHIPLAP

The Standard Working for Heavy Flooring requires either a tongue-and-groove located one-quarter the thickness of the rough material from the bottom of the piece, or in the case of Heavy Shiplap, a lap $\frac{1}{2}$ inch wide, occupying one-half the finished thickness of the piece. Two inch and thicker material may be grooved for splines, in which case the grooves should be the same width and depth as are provided in matched material of the same thickness.

GRADE

Factory Flooring is manufactured in No. 1 Common Grade which is furnished in Standard lengths of 10 to 24 feet inclusive, in multiples of 2 feet, and must be suitable for use without waste. Better grades of Factory Flooring such as Merchantable are purchased by special contract. For construction of Heavy Service Floors and Use Specifications, see Bulletins Nos. 5 and 6 of this series.

PICKETS

Pickets are furnished in two forms, Square or Flat. Square pickets are worked from 1-1/2 inch stock to 1-5/16 inches by 1-5/16 inches or from 1-1/4 inch stock to 1-1/16 inches by 1-1/16 inches, in lengths of 3 and 4 feet, dressed on four sides and pointed. Flat pickets are worked from 1 inch by 3 inch stock to 3/4 inch by 2-1/4 inches, in lengths of 3 and 4 feet, dressed on four sides and headed.

LATH

The Standard Size of Southern Yellow Pine lath, green, is 1-7/16 inches in width and five (5) laths to every 2 inches in thickness, with a minimum thickness of 5/16 inches of any one lath. When dry, five (5) laths measure 1 5/8 inches in thickness, with a width of not less than 1-5/16 inches. They are furnished in lengths of 4 feet with a tolerance of not more than 20 per cent. of a shipment $\frac{1}{2}$ inch short in length.

GRADES

Southern Yellow Pine lath are furnished in two grades, No. 1 and No. 2 Lath. The No. 2 grade permits wane and greater tolerance in width and thickness but the character and number of defects does not prohibit its use without waste.

Lath is also furnished on order in the No. 1 Grade, 1 inch wide and 32 inches or 48 inches long.

PATENT LATH

Standard Byrkit lath for use on interior plaster walls or exterior stucco walls is manufactured of Southern Yellow Pine in 3 1/2 and 5 1/4 inch widths and lengths of 4 feet and up. This lath is provided with dovetail grooves, 5/16 inch deep and 1 3/4 inches on centers and is furnished jointed, square edge, or with tongue and groove.

It is designed to be nailed to the wood studs with 2 and 3 nails to each stud and the end joints are not required to break over studs.

SHINGLES

Southern Yellow Pine wood shingles are furnished in heart and sap grades for installation over wood rafters with nailing strips or over roofers. The shingles are 4 inches wide, 18 inches long, 7/16 inches at the butt, tapering to 1/16 inches at the thin end. To cover 100 square feet of surface, when laid in exact alignment, the following numbers of shingles are required:

4	inch exposure.....	900	shingles
4 1/2	" "	800	"
5	" "	720	"
5 1/2	" "	650	"
6	" "	600	"

Ten (10) per cent. should be added to these figures to allow for fitting and waste.

GRADES

Two heartwood grades of Southern Yellow Pine shingles are furnished, Select grade and No. 1 Grade; and two sapwood grades, Prime Grade and No. 2 Grade.

STRUCTURAL TIMBER GRADES

THE STRUCTURAL grading rules of Southern Yellow Pine furnish material suitable for all construction uses. Select Structural Grade,

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for heavy structural units in important engineering work including bridges and mill buildings; Merchantable Grade, for interior and exterior structural uses where appearance, strength and durability are the requirements; Square Edge and Sound Grade, where appearance and use dictate full sections with square corners and where the timber is to be treated with a chemical preservative; and No. 1 Common Grade for use in locations not subject to high humidity, in all general building work, and in temporary false work.*

SELECT STRUCTURAL

Select Structural Grade requires all material to conform to the Density Requirement and to show 85 per cent. heartwood, girth measurement. The character and quantity of defects are limited in such manner as to insure the greatest structural strength as a beam or strut, girder or column.

MERCHANTABLE

Merchantable Grade is furnished in either Dense or Sound Material with a minimum of two-thirds heartwood, surface measurement, on one of the wide faces in sizes under 9 inches in the largest dimension; and two-thirds or more heartwood on both wide faces in sizes 9 inches and over in the largest dimension. On square sticks, the faces showing the most heartwood govern the inspection. When the heartwood shows the full length of the stick, the requirement of two-thirds of the area, surface measurement, is waived. This grade permits wane of limited extent on not to exceed 10 per cent. of the pieces in any shipment. The timbers must be well manufactured and free from unsound or loose knots, knots in groups, or other defects that materially impair the strength or durability of the timber.

SQUARE EDGE AND SOUND

Square Edge and Sound Grade is furnished in either Dense or Sound Material, and, unless otherwise specified, admits any amount of sapwood. The timbers must be well manufactured, square and free from wane. This grade of structural timber is especially adapted to treatment with chemical preservatives and prohibits defects that materially impair the strength.

NO. 1 COMMON

No. 1 Common Grade is furnished in either Dense or Sound material, and, unless otherwise specified, admits any amount of sapwood. Wane is permitted on all pieces to a specified extent. Unsound knots with a mean or average diameter not exceeding $1\frac{1}{2}$ inches are permissible, and the sizes of sound and pith knots are limited in proportion to the dimensions of the piece as specified in the grading rules.

HEART TIMBERS

All timber specifications for heart requirements other than those for Select Structural, and Merchantable timbers, are considered under special contract, and the specifications should state whether the heart requirements refer to surface or girth measurement.*

STANDARD ABBREVIATIONS FOR WORKED LUMBER

bd.....	Board.
bd. ft.....	Board foot; i. e., an area of one square foot by one inch thick.
b. m.....	Board (foot) measure.
BC&E1S.....	Center and Edge bead one side; i. e., surfaced one or two sides and with a longitudinal center and edge bead on a surfaced face.
Btr.....	Better.
B&B or B&Btr.....	B and Better Grades.
CM.....	Center matched; i. e., the tongue and groove joints are worked along the center of the edges of the piece.
C or Com.....	Common.
cu. ft.....	Cubic foot.
D & M.....	Dressed and matched; i. e., dressed one or two sides and tongued and grooved on the edges. The match may be center or standard.
DM & EM.....	Dressed, matched and end-matched; i. e., dressed one or two sides and worked to tongue and groove joints on both the edges and the ends.
Dim.....	Dimension.
E.....	Edge.
E. G.....	Edge Grain.
F. G.....	Flat grain.
Flg.....	Flooring.
ft.....	Foot or feet. Also one accent (').
ft. b. m.....	Feet board measure.

(Continued)

*See Timber Specifications of Southern Pine Association and Bulletin No. 3 of this series.

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ft. s. m.	Feet Surface measure.
Hrt. or Ht.	Heart.
Hrtwd.	Heartwood.
lin. ft.	Lineal foot; i. e., 12 inches.
Lth.	Lath.
M.	Thousand.
M. b. m.	Thousand (feet) board measure.
Merch.	Merchantable.
Mldg.	Moulding.
M. s. m.	Thousand (feet) surface measure.
Rfg.	Roofing.
Rfrs.	Roofers.
r. l.	Random lengths.
S1E	Surfaced one edge.
S2E	Surfaced two edges.
S1S	Surfaced one side.
S2S	Surfaced two sides.
S1S1E	Surfaced one side and one edge.
S2S1E	Surfaced two sides and one edge.
S1S2E	Surfaced one side and two edges.
S4S	Surfaced four sides.
S4SCS	Surfaced four sides with a calking seam on each edge.
SM	Dressed two sides and standard matched.
S2S&CM	Surfaced two sides and center matched.
Sap.	Sapwood.
Sdg.	Siding.
Sel.	Select.
s. f.	Surface foot; i. e., an area of one square foot.
Sh. D.	Shipping dry.
Shlp. or S./L.	Shiplap.
s. n. d.	Sap no defect.
SE & S	Square edge and sound.
Std.	Standard.
T & G	Tongued and grooved.
Tbrs.	Timbers.
VC&E1S	Center and Edge V one side; i. e., surfaced one or two sides and with a longitudinal edge and center V-shaped groove on a surfaced face.
V. G.	Vertical grain (same as edge grain)
wt.	Weight.

STANDARD SHIPPING WEIGHTS

THE FOLLOWING average weights per thousand feet, board measure, of Southern Yellow Pine lumber are based upon test weights of large quantities of each item listed, worked to Standard Yard Size, of the Southern Pine lumber manufactured by the subscribers to the Southern Pine Association.

LONG LEAF DRY*

Flooring, 25/32x2 $\frac{3}{8}$	2,000
Flooring, 25/32x3 $\frac{1}{4}$	2,100
Flooring, 25/32x5 $\frac{1}{8}$	2,300
Ceiling, 5/16	1,000
Ceiling, 7/16	1,200
Ceiling, 9/16	1,500
Ceiling, 11/16	1,800
Partition, $\frac{3}{4}$	1,900
Siding, from inch stock	1,100
Siding, from 1 $\frac{1}{4}$ inch stock	1,400
Drop Siding to $\frac{3}{4}$	1,900
Moulded Casing, 4 $\frac{1}{2}$ to 5 $\frac{1}{4}$	2,000
Moulded Base, from 8, 10, 12 inch stock	2,100
Finish, inch S I S or S 2 S to 25/32	2,500
Finish, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ and 2 inch, S 1 S or S 2 S to Standard Thickness	2,800
Finish, 1, 1 $\frac{1}{4}$, 1 $\frac{1}{2}$ and 2 inch, rough	3,400
Standard Industrial 1-inch, S 1 S or S 2 S 13/16	2,600
Standard Industrial 2-inch, S 1 S or S 2 S 1 $\frac{3}{4}$	3,000

For Hollow Back Flooring, Ceiling and Drop Siding, Deduct 100 lbs.

LONG LEAF SHIPPING DRY**

1x4, S 2 S and C. M., 25/32	2,300
1x6, S 2 S and C. M., 25/32	2,400
Shiplap and D. & M., 25/32	2,500
Grooved Roofing, 25/32	2,500
Com. Boards and Fencing 1x4, 6, 8 and 10 in., S 1 S or S 2 S to 25/32	2,600
Com. Boards, 1x12, S 1 S or S 2 S to 25/32	2,700
Standard Industrial Boards, 1-inch 8 to 12-inch 13/16	2,800
Com. Boards and Fencing 1x4, 6, 8 or 10 inch, rough	3,400
Com. Boards, 1x12, rough	3,500
2x4, 2x6 and 2x8, S 1 S 1 E to 1 $\frac{5}{8}$	2,700
2x4, 2x6 and 2x8, rough	3,400
2x10 and 2x12, S 1 S 1 E to 1 $\frac{5}{8}$	2,800
2x10 and 2x12, rough	3,500
Standard Industrial 2x4, 2x6, 2x8, S 1 S and 1 E or S 4 S 1 $\frac{3}{4}$	2,900
Standard Industrial 2x10 & 2x12, S 1 S & 1 E or S 4 S 1 $\frac{3}{4}$	3,000

LONG LEAF GREEN

2x14 and 3x12, S 1 S 1 E	3,800
2x14 and 3x12, rough	4,500
4x4 and 6x6, S 1 S 1 E	3,800
4x4 and 6x6, rough	4,500
6x8 and over, rough	4,500
6x8 and over, S 4 S	3,800

Plastering Lath, dry	550
Byrkit Lath, dry	1,800

*Kiln dry lumber reduced to lowest practicable moisture content without injuring the material.

**Air dry lumber reduced to a moisture content sufficient to avoid damage from staining or molding when loaded in a closed car.

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SHORT LEAF DRY*

Flooring, 25/32x2 3/4	1,800
Flooring, 25/32x3 1/4	1,900
Flooring, 25/32x5 1/8	2,100
Ceiling, 5/16	900
Ceiling, 7/16	1,100
Ceiling, 9/16	1,400
Ceiling, 11/16	1,700
Partition, 3/4	1,800
Siding, from inch stock	1,000
Siding, from 1 1/4 inch stock	1,250
Drop Siding, 3/4 and Moulded Casing	1,800
Moulded Base	2,000
Finish, inch S 1 S or S 2 S 25/32	2,400
Finish, 1 1/4, 1 1/2 and 2 inch, S 1 S or S 2 S	2,700
Finish, 1, 1 1/4, 1 1/2 and 2 inch, rough	3,200
Standard Industrial Finish, inch S 1 S or S 2 S to 13/16	2,500
Standard Industrial Finish, 2 inch S 1 S or S 2 S to 1 3/4	2,900

For Hollow Back Flooring, Ceiling and Drop Siding, Deduct 100 lbs.

SHORT LEAF SHIPPING DRY**

1x4, S 2 S and C. M., 25/32	2,100
1x6, S 1 S and C. M., 25/32	2,200
Shiplap and D. & M., 25/32	2,300
Grooved Roofing	2,300
Com. Boards and Fencing 1x4, 6, 8, 10 inch, S 1 S or S 2 S to 25/32	2,400
Com. Boards, 1x12, S 1 S or S 2 S to 25/32	2,500
Standard Industrial Boards, 1-inch 8 to 12 inches 13/16	2,600
Com. Boards and Fencing 1x4, 6, 8, 10 inch, rough	3,300
Com. Boards, 1x12, rough	3,400
2x4, 2x6 and 2x8, S 1 S 1 E to 1 3/4	2,500
2x4, 2x6 and 2x8, rough	3,300
2x10 and 2x12, S 1 S 1 E to 1 3/4	2,600
2x10 and 2x12, rough	3,300
Standard Industrial 2x4, 2x6, 2x8, 1 3/4	2,700
Standard Industrial 2x10, 2x12, 1 3/4	2,800

SHORT LEAF GREEN

2x14 and 3x12, S 1 S 1 E	3,500
2x14 and 3x12, rough	4,200

*Kiln dry lumber reduced to lowest practicable moisture content without injuring the material.

**Air dry lumber reduced to a moisture content sufficient to avoid damage from staining or molding when loaded in a closed car.

3x4 and 6x6, S 1 S 1 E	3,500
4x4 and 6x8, rough	4,200
8x8 and over, rough	4,200
Plastering Lath, dry	500
Byrkit Lath, dry	1,650

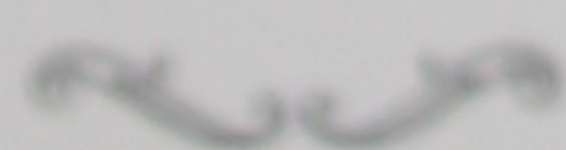
INSPECTION SERVICE

IN ADDITION to the usual mill inspection, the Southern Pine Association conducts a Bureau of Inspection which maintains contact with all Association Mills through monthly check inspections and instructions of the mill graders. Where buyers demand and will pay the cost of Association inspection at the mill of any shipment of Southern Yellow Pine, a certificate made by an official inspector of the Association will be furnished with the understanding that such inspection and certificate are final. This inspection is available to subscribers and non-subscribers at a reasonable charge upon request.

The Southern Pine Association has undertaken to maintain through its Grade Specifications, Inspection Service and Grade Marking, the standards of size and grade established by the American Lumber Standards. Southern Yellow Pine lumber so manufactured, graded and inspected is known as American Standard Lumber. The purchase, sale or shipment of American Standard Lumber involves agreement to submit to official Association Inspection any complaint as to Standard Sizes or Grades. A shipment of American Standard Lumber is considered to be of the grade invoiced when at least 95 per cent. is found to be of that grade.***

Association inspection of special grades of lumber not recognized in published grading rules of the Southern Pine Association is furnished only when exact written specifications of such grades are submitted to the inspector.

***See Inspection and Shipping Provisions of the S. P. Assn. for complete rules.



~ (7) SPA-1 COM. ~ (7) SPA-2 COM. ~ (7) SPA-3 COM. ~ (7) SPA-4 COM. ~ (7) SPA-C ~ (7) SPA-B&BEG ~ (7) SPA-1 E.G. ~ (7) SPA-SE&S. ~

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(7) SPA-B&BEG

~

(7) SPA-1 HRT.

~

(7) SPA-3 COM.

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(7) SPA-2 COM.

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(7) SPA-C

~

(7) SPA-2 COM.

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(7) SPA-1 E.G.

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(7) SPA-2 E.G.

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(7) SPA-C&E

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(7) SPA-3 COM.

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(7) SPA-B&BHT

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(7) SPA-CEG

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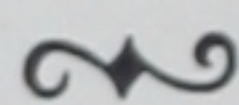
(7) SPA-B&B

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(7) SPA-B&B

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STANDARDIZED and GRADE MARKED SOUTHERN PINE



Southern Pine lumber, made by SOUTHERN PINE ASSOCIATION mills in accordance with the American Lumber Standards, now can be secured with the grade branded on the end of each board by the expert grader at the producing mill.

Grade-Marking is designed to insure the buyer and user that he is getting the correct quality of lumber he pays for and wants for his purposes. GRADE-MARKING is an important part of the National Lumber Standardization program.



~ (7) SPA-3 COM. ~ (7) SPA-B&BHT ~ (7) SPA-2 E.G. ~ (7) SPA-MERCH ~ (7) SPA-B&B ~ (7) SPA-CEG ~ (7) SPA-B&BHT ~ (7) SPA-2 COM. ~